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JOINT PHOTOGRAPHIC INTELLIGENCE BRIEF

ARMY-NAVY-CIA

(Published and Disseminated by CIA/PIC)

SUBJECT : Hexagon SAM Equipment  
LOCATION: Kapustin Yar-Vladimirovka  
Missile Test Center, USSR  
WAC NO. : 235

BRIEF NO: PIC/JB-1/60  
DATE : 12 January 1960  
LAT. : 48° 46' N  
LONG. : 45° 47' E

25X1D

PHOTO DATA:

MAP DATA: USAF ATC 0235-9913-100A

REMARKS:

This brief describes the hexagon SAM (surface-to-air missile) equipment identified within the troop-training portion of the SAM Facilities at the Kapustin Yar-Vladimirovka Missile Test Center. In addition, it gives a count of equipment found at several completed operational hexagon SAM sites, as well as the total count of hexagon SAM equipment identified to date from aerial photography of the Soviet Bloc.

The hexagon SAM equipment identified at the SAM Facilities within the Kapustin Yar-Vladimirovka Missile Test Center, USSR, consists of Fruit Set guidance radars, missile launchers, and miscellaneous vehicles, including vans, trucks, prime movers, and utility vehicles. This equipment is dispersed among the dry-firing areas, the transloading area, and the marshaling area. The total amount of hexagon SAM equipment (excluding equipment at the R & D area) associated with troop training within the SAM Facilities is approximately as follows:

30 Fruit Set radars  
169 launchers  
540 vehicles

The above totals are distributed as follows among the three areas mentioned:

Dry-Firing Areas

7 (2 possible) Fruit Set radars  
21 launchers  
49 vehicles

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T-O-P S-E-C-R-E-T

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Transloading Area

- 12 launchers (entrained)
- 6 vehicles (entrained)
- 36 vehicles

Marshaling Area

- 23 (approximate) Fruit Set radars
- 136 (approximate) launchers
- 449 (approximate) vehicles

Elements of approximately 30 hexagon SAM batteries have been identified within the marshaling area. These batteries evidently arrive and depart periodically. This is substantiated by the presence of entrained and detrained equipment in the transloading area, which is directly associated with the marshaling area. The scale, obliquity, and shadow distortion of the photography covering the marshaling area preclude an exact count of equipment, resulting in approximate totals for this area.

The following pieces of equipment have been identified from aerial photography at several completed operational hexagon SAM sites within the Soviet Bloc.

- 6 launchers with detachable bogie wheels
- 6 launcher prime movers
- 7 missile transporters (trailer plus prime mover)
- 7 missiles (total capacity of 12, including 6 in hold status)
- 1 Fruit Set radar
- 6 guidance vans
- 3 guidance generator vans
- 1 guidance support van
- 1 Spoon Rest radar
- 1 Spoon Rest generator trailer
- 1 IFF radar (probably Score Board)
- 1 communications van
- 1 Mercury Grass antenna
- 3 van-type trailers (possibly maintenance)

In the Soviet Bloc, a total of 46 hexagon-type SAM sites, 10 hexagon SAM support facilities, and 6 antiaircraft garrisons (containing transporters) have been identified from all types of photography to date. The total count of pieces of all hexagon SAM equipment identified at all these installations together is as follows:

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24 Fruit Set radars  
118 launchers  
153 Guideline-type missiles  
316 missile transporters  
19 Spoon Rest radars  
610 (approximate) vehicles

The combined totals for hexagon SAM equipment located at the SAM Facilities within the Kapustin Yar-Vladimirovka Missile Test Center and at the 46 hexagon SAM sites, 10 SAM support facilities, and 6 antiaircraft garrisons follow.

54 Fruit Set radars  
287 launchers  
153 Guideline-type missiles  
316 missile transporters  
19 Spoon Rest radars  
1,150 vehicles